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APPLICATION NO		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/788,709		02/27/2004	Tim Foo	TI-36306	7764
23494	7590	05/18/2005		EXAM	IINER
TEXAS II	NSTRUI	MENTS INCOR	NGUYEN, HAI L		
P O BOX 655474, M/S 3999			ART UNIT	PAPER NUMBER	
DALLAS,	DALLAS, TX 75265			2816	
			DATE MAILED: 05/18/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
Office Action Commons	10/788,709	FOO ET AL.					
Office Action Summary	Examiner	Art Unit					
	Hai L. Nguyen	2816					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on 27 Fe	Responsive to communication(s) filed on 27 February 2004.						
2a) This action is <b>FINAL</b> . 2b) ⊠ This	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.						
3) Since this application is in condition for allowan	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4) Claim(s) 1-11 is/are pending in the application.		:					
4a) Of the above claim(s) is/are withdraw	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.	i) Claim(s) is/are allowed.						
6) Claim(s) <u>1-11</u> is/are rejected.	☑ Claim(s) <u>1-11</u> is/are rejected.						
· · · · · · · · · · · · · · · · · · ·	Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers							
9) The specification is objected to by the Examiner.							
10)⊠ The drawing(s) filed on <u>27 February 2004</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) Notice of References Cited (PTO-892)	4) Interview Summary						
Notice of Draftsperson's Patent Drawing Review (PTO-948)     Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)		Paper No(s)/Mail Date  5) Notice of Informal Patent Application (PTO-152)					
Paper No(s)/Mail Date	6) Other:						

Application/Control Number: 10/788,709

Art Unit: 2816

#### DETAILED ACTION

## Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the second paragraph of 35 U.S.C. 112:
  - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claims 7-11 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 7-11 are rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential elements, such omission amounting to a gap between the elements. See MPEP § 2172.01. The omitted elements are the element that store the present active state of the DPLL and the element that remove primary power to the DPLL. Since this is an apparatus claim, those omitted elements need to be included in the claims. Furthermore, the structural cooperative relationships of those elements with other recited elements; such as the DCO, the digital controller, the time digitizer, the PFD; also need to be included in the claims. Moreover, the recited result function limitation "wherein the DPLL operates in response to the algorithmic control software to store the present active state of the DPLL and remove primary power to the DPLL subsequent to storing its present active state" is unclear because it cannot be determined what recited elements, in claim 7, of the DPLL (10 in instant Fig. 1) response to the algorithmic control software; and the algorithmic control software is not an element and not part of the DPLL.

Application/Control Number: 10/788,709 Page 3

Art Unit: 2816

# Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the

basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on

sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1-11 are rejected under 35 U.S.C. 102(b) as being anticipated by Nuckolls et al.

(U.S. Patent 5,473,285).

With regard to claims 1 and 7, Nuckolls et al. discloses in Figs. 1-3 a digital phase lock

loop (10), and a method of use thereof, comprising a digital controlled oscillator (16); a digital

controller (22) operational to generate DCO control codes; a reference clock; a phase frequency

detector (11, 12); a time digitizer (13-21) operational to convert phase error between reference

and feedback clocks into a digital control code such that the digital controller is controlled there

from; a feedback loop from the DCO output to generate the feedback clock to the PFD input; and

algorithmic control software, wherein the DPLL operates in response to the algorithmic control

software to store the present active state of the DPLL (as shown in Figs. 2-3) and remove

primary power to the DPLL subsequent to storing its present active state (see column 1, lines 33-

51).

With regard to claims 2-6 and 8-11, the reference also meets the recited limitations in

these claims (see column 1, line 33 through column 2, line 13 and Figs. 1-3).

Application/Control Number: 10/788,709 Page 4

Art Unit: 2816

### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's 5. disclosure. Schnell (US 6,456,130) is cited as of interest because it discloses a delay look loop

and update method with limited drift and improved power savings circuit.

Any inquiry concerning this communication or earlier communications from the 6.

examiner should be directed to Hai L. Nguyen whose telephone number is 571-272-1747 and

Right Fax number is 571-273-1747. The examiner can normally be reached on Monday-

Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Timothy Callahan can be reached on 571-272-1740. The official fax phone number

for the organization where this application or proceeding is 703-872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is 571-272-1562.

Information regarding the status of an application may be obtained from the Patent 7.

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private

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